

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/017988

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C317/06 C08F259/08 H01M8/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C C08F H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BEILSTEIN Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12, 5 December 2003 (2003-12-05) -&amp; JP 2003 272665 A (TOYOTA MOTOR CORP), 26 September 2003 (2003-09-26) An automated computer translation of this Japanese publication can be found on the website of the Japanese Patent Office: <a href="http://www.ipdl.ncipi.go.jp/homepg_e.ipdl">http://www.ipdl.ncipi.go.jp/homepg_e.ipdl</a> abstract</p> <p style="text-align: center;">----- -/--</p>	1-7

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

3 June 2005

Date of mailing of the international search report

16/06/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ISHIHARA ET AL: "Polystyrene-bound tetrafluorophenylbis(triflyl)methane as an organic-solvent-swelling and strong bronsted acid catalyst" ANGEWANDTE CHEMIE, VCH VERLAGSGESELLSCHAFT, WEINHEIM, DE, vol. 113, no. 21, 5 November 2001 (2001-11-05), pages 4201-4203, XP002313301 ISSN: 0044-8249 page 4201 - page 4202, left-hand column -----	1-4
A	EISMAN G A: "THE APPLICATION OF DOW CHEMICAL'S PERFLUORINATED MEMBRANES IN PROTON-EXCHANGE MEMBRANE FUEL CELLS" JOURNAL OF POWER SOURCES, ELSEVIER SEQUOIA S.A. LAUSANNE, CH, vol. 29, no. 3 / 4, 1 February 1990 (1990-02-01), pages 389-398, XP000233854 ISSN: 0378-7753 page 389 page 390 - page 392 -----	1-7
P,A	EP 1 375 532 A (JAPAN SCIENCE AND TECHNOLOGY CORPORATION) 2 January 2004 (2004-01-02) page 7, paragraph 18 - paragraph 22 paragraph '0030! - paragraph '0031!; examples 4,11,12 -----	1-4

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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PCT/JP2004/017988

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2003272665 A	26-09-2003	NONE	
EP 1375532 A	02-01-2004	JP 2002338539 A	27-11-2002
		EP 1375532 A1	02-01-2004
		US 2004116617 A1	17-06-2004
		CN 1496372 A	12-05-2004
		WO 02072643 A1	19-09-2002
		TW 593382 B	21-06-2004